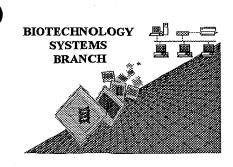
### RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/08447/

Art Unit / Team No.:

6/4/98

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212



45

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:12

INPUT SET: S26434.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

	1	SEQUENCE LISTING	
	2 3 (1)	General Information	
	4 5 6 7 8 9 10 11	(i) APPLICANT: Murphy, Patricia White, Marga Olson, Sheri Yoshikawa, Matthew Jackson, Geoffrey Eskanderi, Tara Schryer, Brenda Park, Michael	Does Not Comply Corrected Diskette Needed
	13 14	(ii) TITLE OF THE INVENTION: NOVEL CODING SE	POLIENCE HADIOTYDES
	14 15	OF THE HUMAN BRCA2 GENE	
>	16 <b>17</b>	(iii) NUMBER OF SEQUENCES: 111 ( De sept)	rezi)
	18 19	(iv) CORRESPONDENCE ADDRESS:	TAPORTANT: The ple was not
	20	(A) ADDRESSEE: Howrey & Simon	MINDORUMO.
	21	(B) STREET: 1299 Pennsylvania Avenue N.W.	
	22	(C) CITY: Washington	1) I was not
	23	(D) STATE: DC	This full most
	24	(E) COUNTRY: USA	A COTT COOS
	25	(F) ZIP: 20004	Sand in ASCII (DOS)  Super, regund by  Segure Rules. Plene  2.0 I sure your corrected  Lisk file is said
	26		d. is assured to
	27	(v) COMPUTER READABLE FORM:	Just, Lychan
	28	(A) MEDIUM TYPE: Diskette	la salula lle na
	29	(B) COMPUTER: IBM Compatible	segure pour se
	30	(C) OPERATING SYSTEM: DOS	2 201011
	31	(D) SOFTWARE: FastSEQ for Windows Version	2.0 essur your court
	32	A LA COMPANY AND TOUR TOUR DAME.	1 51 19 wasted
	33	(vi) CURRENT APPLICATION DATA:	disk free its sound
	34	(A) APPLICATION NUMBER:	
	35	(B) FILING DATE:	100000
	36	(C) CLASSIFICATION:	Jan House
	37	(ii) DDTOD ADDITCAMTON DAMA.	all woon well int
	38	(Vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER:	The following
	39	, ,	to the state of
	40 41	(B) FILING DATE:	the PTO will not prouse it.
	41 42		$\nu$
	42		
		(viii) ATTORNEY/AGENT INFORMATION:	
	44	(VIII) ATTORNEY/AGENT INFORMATION:	

(A) NAME: Halluin, Albert P

09/084,471

May 6

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (A) NAME/KEY:
- (B) LOCATION:
- (D) OTHER INFORMATION: 2F primer

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

TGAGTTTTAC CTCAGTCACA

WHERE IS SEQ FO NO: 15?

(2) INFORMATION FOR SEQ ID NO:16:

20

I Segue 15 is deliberately ornoles, use the formet:

(2) INFORMATION FOR SED ID NO: 15!

(i) SEQUENCE CHARACTERISTICS:

(XI) SEQUENCE DESCRIPTION: SEQ ED NO: 15:

This sequeree has been deliberately omitted

Leave (iii) NUMBER OF SEQUENCES: regime at 111



### RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:13

INPUT SET: S26434.raw

46 47	(B) REGISTRATION NUMBER: 25,227 (C) REFERENCE/DOCKET NUMBER: 5371.31.US02
48	
49	(ix) TELECOMMUNICATION INFORMATION:
50	(A) TELEPHONE: 650-463-8109
51	(B) TELEFAX: 650-463-8400
52	(C) TELEX:
53	
54	

#### ERRORED SEQUENCES FOLLOW:

PAGE: 2

> > >	6733 6734 6735 6736 6737 6738 6739 6741 <b>6742</b> 6744 6745 6745	(2) INFORMATION FOR SEQ ID NO:14:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (IX) FEATURE: Leady Alexander Alexa	st oggen or x wil be con 3/0bally)
	6749		
>	6750	(2) INFORMATION FOR SEQ ID NO:16:	
	6751 6752	(i) SEQUENCE CHARACTERISTICS:	
	6753	(A) LENGTH: 41 base pairs	
\/	6754	(B) TYPE: nucleic acid	
JK	6755	(C) STRANDEDNESS: single	
<i>J</i> ( '	6756	(D) TOPOLOGY: linear	
	6757	(2)	
	6758		
	6759	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
	6760		
	6761	CAGGAAACAG CTATGACCCT GTGACGTACT GGGTTTTTAG C	41
	6762		
	6763	(2) INFORMATION FOR SEQ ID NO:17:	<u> </u>
	6764	( M / LATE CANADAR MADE A CAL NAME AND ATOLIA ! !	
	6765	(i) SEQUENCE CHARACTERISTICS:	
	6766	(A) LENGTH: 24 base pairs	
	6767	(B) TYPE: nucleic acid	
	6768	(C) STRANDEDNESS: single	





### RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:15

			INPUT SET: S26434.raw
	6769	(D) TOPOLOGY: linear	
	6770		
	6771		
>	6772	(A) NAME/KEY:	
	6773	(B) LOCATION:	
>	6774	(D) OTHER INFORMATION: 3FII primer	
/	6775	(b) OTHER INFORMATION. SFII DITMET	
		(and ) GEOMENICE RECEDENCE OF THE NO. 17.	
	6776	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
	6777		
	6778	GATCTTTAAC TGTTCTGGGT CACA	24
	6779	,	
	6780	(2) INFORMATION FOR SEQ ID NO:18:	
	6781		
	6782	(i) SEQUENCE CHARACTERISTICS:	
	6783	(A) LENGTH: 22 base pairs	•
	6784	(B) TYPE: nucleic acid	
	6785	(C) STRANDEDNESS: single	
	6786	(D) TOPOLOGY: linear	
	6787		
	6788		
>	6789	(A) NAME/KEY:	
>	6790	(B) LOCATION:	
>	6791	(D) OTHER INFORMATION: 3RII primer	
-	6792	(2) 011111	
	6793	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
	6794	(MI) DECOMMON PRODUCTI IION, DEC ID NOTE.	
	6795	CCCAGCATGA CACAATTAAT GA	22
	6796	COORDON CHOMMITMIT ON	
	0750		
	6797	(2) INFORMATION FOR SEQ ID NO:19:	
	6798		
	6799	(i) SEQUENCE CHARACTERISTICS:	
	6800	(A) LENGTH: 44 base pairs	
	6801	(B) TYPE: nucleic acid	
	6802	(C) STRANDEDNESS: single	
	6803	(D) TOPOLOGY: linear	
	6804	(b) Totollogi. Tillegi	
	6805		
		(A) NAME/KEY:	
	6806		)
>	6807	(B) LOCATION:	and the same of th
>	6808	(D) OTHER INFORMATION: 4F/M 13F primer	
	6809	( The state of the	
	6810	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
	6811		
	6812	TGTAAAACGA CGGCCAGTAG AATGCAAATT TATAATCCAG AGTA	4.4
	6813		
	603.4	/A) THEODMETON FOR GEO TO MO. OO.	
	6814 6815	(2) INFORMATION FOR SEQ ID NO:20:	
	מומ		
		(i) decirate diamagnetica.	
	6816	(i) SEQUENCE CHARACTERISTICS:	
	6816 6817	(A) LENGTH: 22 base pairs	
	6816	` ' <del></del>	ETC.

PAGE: 4 RAW SEQUENCE LISTING **DATE: 06/04/98** PATENT APPLICATION US/09/084,471 TIME: 15:52:16 INPUT SET: S26434.raw (C) STRANDEDNESS: single 6819 6820 (D) TOPOLOGY: linear 6821 6822 (A) NAME/KEY: 6823 6824 (B) LOCATION: 6825 (D) OTHER INFORMATION: 4R-1A primer 6826 6827 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20: 6828 6829 ATCAGATTCA TCTTTATAGA AC 22 6830 6831 (2) INFORMATION FOR SEQ ID NO:21: 6832 6833. (i) SEQUENCE CHARACTERISTICS: 6834 (A) LENGTH: 40 base pairs 6835 (B) TYPE: nucleic acid 6836 (C) STRANDEDNESS: single 6837 (D) TOPOLOGY: linear 6838 6839 6840 (A) NAME/KEY: 6841 (B) LOCATION: 6842 (D) OTHER INFORMATION: 5+6F/M13F primer 6843 6844 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21: 6845 6846 TGTAAAACGA CGGCCAGTTG TGTTGGCATT TTAAACATCA 40 6847 6848 (2) INFORMATION FOR SEQ ID NO:22: 6849 6850 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs 6851 6852 (B) TYPE: nucleic acid 6853 (C) STRANDEDNESS: single 6854 (D) TOPOLOGY: linear 6855 6856 (A) NAME/KEY: 6857 6858 (B) LOCATION: 6859 (D) OTHER INFORMATION: 5+6R/M13R primer 6860 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22: 6861 6862 6863 CAGGAAACAG CTATGACCCA GGGCAAAGGT ATAACGCT 38 6864 6865 (2) INFORMATION FOR SEQ ID NO:23: 6866 6867 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 38 base pairs

PAGE: 5 RAW SEQUENCE LISTING DATE: 06/04/98 PATENT APPLICATION US/09/084,471 TIME: 15:52:18 INPUT SET: S26434, raw 6869 (B) TYPE: nucleic acid 6870 (C) STRANDEDNESS: single 6871 (D) TOPOLOGY: linear 6872 6873 6874 (A) NAME/KEY: 6875 (B) LOCATION: 6876 (D) OTHER INFORMATION: 7F/M13F primer 6877 6878 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23: 6879 6880 TGTAAAACGA CGGCCAGTTA AGTGAAATAA AGAGTGAA 38 6881 6882 (2) INFORMATION FOR SEQ ID NO: 24: 6883 6884 (i) SEQUENCE CHARACTERISTICS: 6885 (A) LENGTH: 36 base pairs 6886 (B) TYPE: nucleic acid 6887 (C) STRANDEDNESS: single 6888 (D) TOPOLOGY: linear 6889 6890 6891 (A) NAME/KEY: 6892 (B) LOCATION: 6893 (D) OTHER INFORMATION: 7R/M13R primer 6894 6895 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24: 6896 6897 CAGGAAACAG CTATGACCAG AAGTATTAGA GATGAC 36 6898 6899 (2) INFORMATION FOR SEQ ID NO:25: 6900 6901 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs 6902 6903 (B) TYPE: nucleic acid 6904 (C) STRANDEDNESS: single 6905 (D) TOPOLOGY: linear 6906 6907 6908 (A) NAME/KEY: 6909 (B) LOCATION: (D) OTHER INFORMATION: 8F/M13F primer 6910 6911 6912 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25: 6913 6914 TGTAAAACGA CGGCCAGTGC CATATCTTAC CACCTTGTGA 40 6915 6934 (2) INFORMATION FOR SEQ ID NO:27: 6935

(i) SEQUENCE CHARACTERISTICS:

PAGE: 6		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:52:19	
			INPUT SET: S26434,raw	
	6937	(A) LENGTH: 19 base pairs	INI O I SE1. 520454.74W	
	6938	(B) TYPE: nucleic acid		
	6939	(C) STRANDEDNESS: single		
	6940	(D) TOPOLOGY: linear		
	6941	(-,		
	6942			
>	6943	(A) NAME/KEY:		
>	6944	(B) LOCATION:		
>	6945	(D) OTHER INFORMATION: SRIA primer		
	6946			
	6947	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:		
	6948	, , _		
	6949	AATTGTTAGC AATTTCAAC	19	
	6950			
	<del></del>			
	6951	(2) INFORMATION FOR SEQ ID NO:28:		
	6952			
	6953	(i) SEQUENCE CHARACTERISTICS:		
	6954	(A) LENGTH: 40 base pairs		
	6955	(B) TYPE: nucleic acid		
	6956	(C) STRANDEDNESS: single		
	6957	(D) TOPOLOGY: linear		
	6958			
	6959			
>	6960	(A) NAME/KEY:		
>	6961	(B) LOCATION:		
>	6962	(D) OTHER INFORMATION: 9F/M13F primer	•	
	6963			
	6964	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:		
	6965	TICTER AND COLOR CONTROL OF COURS COME OF THE CASE OF		
	6966 6967	TGTAAAACGA CGGCCAGTTG GACCTAGGTT GATTGCAGAT	40	
	0907			
	6968	(2) INFORMATION FOR SEQ ID NO:29:		
	6969	(2) INDOMNITOR FOR DDG ID NO.25.		
	6970	(i) SEQUENCE CHARACTERISTICS:		
	6971	(A) LENGTH: 40 base pairs		
	6972	(B) TYPE: nucleic acid		
	6973	(C) STRANDEDNESS: single		
	6974	(D) TOPOLOGY: linear		
	6975			
	6976			
>	6977	(A) NAME/KEY:		
>	6978	(B) LOCATION:		
>	6979	(D) OTHER INFORMATION: 9R/M13R primer		
	6980			
	6981	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:		
	6982	,,		
	6983	CAGGAAACAG CTATGACCTA AACTGAGATC ACGGGTGACA	40	
	6984	· · · · · · · · · · · · · · · · · · ·	- <b>*</b>	
•	6985	(2) INFORMATION FOR SEQ ID NO:30:		
	6986			

**RAW SEQUENCE LISTING** PAGE: 7 DATE: 06/04/98 PATENT APPLICATION US/09/084,471 TIME: 15:52:21 INPUT SET: S26434.raw 6987 (i) SEQUENCE CHARACTERISTICS: 6988 (A) LENGTH: 24 base pairs 6989 (B) TYPE: nucleic acid 6990 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 6991 6992 6993 (A) NAME/KEY: 6994 6995 (B) LOCATION: 6996 (D) OTHER INFORMATION: 10AF primer 6997 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30: 6998 6999 7000 GAATAATATA AATTATATGG CTTA 24 7001 7002 (2) INFORMATION FOR SEQ ID NO:31: 7003 7004 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs 7005 7006 (B) TYPE: nucleic acid 7007 (C) STRANDEDNESS: single 7008 (D) TOPOLOGY: linear 7009 7010 7011 (A) NAME/KEY: 7012 (B) LOCATION: 7013 (D) OTHER INFORMATION: 10AR/M13R primer 7014 7015 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31: 7016 7017 CAGGAAACAG CTATGACCCC TAGTCTTGCT AGTTCTT 37 7018 7019 (2) INFORMATION FOR SEQ ID NO:32: 7020 7021 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs 7022 7023 (B) TYPE: nucleic acid 7024 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 7025 7026 7027 (A) NAME/KEY: 7028 7029 (B) LOCATION: 7030 (D) OTHER INFORMATION: 10BF/M13F primer

(2) INFORMATION FOR SEQ ID NO:33:

TGTAAAACGA CGGCCAGTAR CTGAAGTGGA ACCAAATGAT AC

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

42

7031 7032

7033 7034

7.035

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:23

			INPUT SET: S26434.raw
	7037		
	7038	(i) SEQUENCE CHARACTERISTICS:	
	7039	(A) LENGTH: 44 base pairs	
	7040	(B) TYPE: nucleic acid	
	7041	(C) STRANDEDNESS: single	
	7042	(D) TOPOLOGY: linear	
	7043		
	7044	(A) MANUE (WENTA	
>	7045 7046	(A) NAME/KEY: (B) LOCATION:	
>	7046 7047	(D) OTHER INFORMATION: 10BR/M13R primer	
	70 <b>4</b> 7	(D) OTHER INFORMATION; TOBE/MISK PITMEL	
	7048	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
	7050	(AI) DECORACE DESCRIPTION. DEC 15 NO.33.	
	7051	CAGGAAACAG CTATGACCAC GTGGCAAAGA ATTCTCTGAA GTAA	44
	7052	Checkmiche Children Classimich illiciation Cha	<b>*</b> *
	7071	(2) INFORMATION FOR SEQ ID NO:35:	
	7072	/ : \ GEOMENICE CVARACHERICA.	
	7073	(i) SEQUENCE CHARACTERISTICS:	
	7074 7075	(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid	
	7075	(C) STRANDEDNESS: single	
	7070	(D) TOPOLOGY: linear	
	7078	(b) Toronogi. Illiedi	
	7079		
>	7080	(A) NAME/KEY:	
>	7081	(B) LOCATION:	
>	7082	(D) OTHER INFORMATION: 10CRII primer	
	7083		
	7084	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	
	7085		
	7086	AGACAGAGGT ACCTGAATC	19
	7087		
	7088	(2) INFORMATION FOR SEQ ID NO:36:	
	7089	(a) THE COMMENTAL FOR DING TO HOTOT	
	7090	(i) SEQUENCE CHARACTERISTICS:	
	7091	(A) LENGTH: 40 base pairs	-
	7092	(B) TYPE: nucleic acid	
	7093	(C) STRANDEDNESS: single	
	7094	(D) TOPOLOGY: linear	
	7095	<u></u>	
	7096		
>	7097	(A) NAME/KEY:	P
>	7098	(B) LOCATION:	
>	7099	(D) OTHER INFORMATION: 11AF-M13 primer	
	7100		
	7101	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
	7102		
	7103	TGTAAAACGA CGGCCAGTTG GTACTTTAAT TTTGTCACTT	40
	7104		
	7105	(2) INFORMATION FOR SEQ ID NO:37:	
		( , ,	•

RAW SEQUENCE LISTING PAGE: 9 DATE: 06/04/98 PATENT APPLICATION US/09/084,471 TIME: 15:52:25 INPUT SET: S26434.raw 7106 (i) SEQUENCE CHARACTERISTICS: 7107 (A) LENGTH: 37 base pairs 7108 7109 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 7110 (D) TOPOLOGY: linear 7111 7112 7113 (A) NAME/KEY: 7114 (B) LOCATION: 7115 (D) OTHER INFORMATION: 11AR-M13 primer 7116 7117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37: 7118 7119 CAGGAAACAG CTATGACCTG CAGGCATGAC AGAGAAT 37 7120 7121 7122 (2) INFORMATION FOR SEQ ID NO:38: 7123 (i) SEQUENCE CHARACTERISTICS: 7124 (A) LENGTH: 22 base pairs 7125 (B) TYPE: nucleic acid 7126 (C) STRANDEDNESS: single 7127 7128 (D) TOPOLOGY: linear 7129 7130 (A) NAME/KEY: 7131 (B) LOCATION: 7132 7133 (D) OTHER INFORMATION: 11BF primer 7134 7135 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38: 7136 22 AAGAAGCAAA ATGTAATAAG GA 7137 7138

7140 7141 (i) SEQUENCE CHARACTERISTICS: 7142 (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid 7143 (C) STRANDEDNESS: single 7144 (D) TOPOLOGY: linear 7145 7146 7147 (A) NAME/KEY: 7148 (B) LOCATION: 7149 7150 (D) OTHER INFORMATION: 11BR primer 7151 7152

7139

7153

7154

7156

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

(2) INFORMATION FOR SEQ ID NO:40:

22

(2) INFORMATION FOR SEQ ID NO:39:

7155

CATTTAAAGC ACATACATCT TG

#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:26

			INPUT SET: S26434.raw
	7157		
	7158	(i) SEQUENCE CHARACTERISTICS:	
	7159	(A) LENGTH: 21 base pairs	
	7160	(B) TYPE: nucleic acid	
	7161	(C) STRANDEDNESS: single	
	7162	(D) TOPOLOGY: linear	
	7163		
	7164		•
>	7165	(A) NAME/KEY:	
>	7166	(É) LOCATION:	
>	7167	(D) OTHER INFORMATION: 11CF primer	
	7168		
	7169	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:	
	7170		
	7171	TCTAGAGGCA AAGAATCATA C	21
	7172		
	7173	(2) INFORMATION FOR SEQ ID NO:41:	
	7174		
	7175	(i) SEQUENCE CHARACTERISTICS:	
	7176	(A) LENGTH: 22 base pairs	
	7177	(B) TYPE: nucleic acid	
	7178	(C) STRANDEDNESS: single	
	7179	(D) TOPOLOGY: linear	
	7180		
	7181		
>	7182	(A) NAME/KEY:	
>	7183	(B) LOCATION:	
>	7184	(D) OTHER INFORMATION: 11CR primer	
	7185		
	7186	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
	7187		
	7188	CAAGATTATT CCTTTCATTA GC	22
	7189		
	7190	(2) INFORMATION FOR SEQ ID NO: 42:	
	7191		
	7192	(i) SEQUENCE CHARACTERISTICS:	
	7193	(A) LENGTH: 22 base pairs	
	7194	(B) TYPE: nucleic acid	
	7195	(C) STRANDEDNESS: single	
	7196	(D) TOPOLOGY: linear	
	7197		
	7198		
>	7199	(A) NAME/KEY:	
>	7200	(B) LOCATION:	
>	7201	(D) OTHER INFORMATION: 11DF primer	
	7202		
	7203	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
	7204		
	7205	AACCAAAACA CAAATCTAAG AG	22
	7206		
<del>,</del>	7207	(2) INFORMATION FOR SEQ ID NO:43:	

RAW SEQUENCE LISTING DATE: 06/04/98 PAGE: 11 PATENT APPLICATION US/09/084,471 TIME: 15:52:28 INPUT SET: S26434.raw 7208 (i) SEQUENCE CHARACTERISTICS: 7209 7210 (A) LENGTH: 23 base pairs 7211 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 7212 7213 (D) TOPOLOGY: linear 7214 7215 (A) NAME/KEY: 7216 (B) LOCATION: 7217 (D) OTHER INFORMATION: 11DR primer 7218 7219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43: 7220 7221 23 GTCATTTTTA TATGCTGCTT TAC 7222 7223 (2) INFORMATION FOR SEQ ID NO:44: 7224 7225 (i) SEQUENCE CHARACTERISTICS: 7226 (A) LENGTH: 21 base pairs 7227 7228 (B) TYPE: nucleic acid 7229 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 7230 7231 7232 (A) NAME/KEY: 7233 (B) LOCATION: 7234 7235 (D) OTHER INFORMATION: 11EF primer 7236 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44: 7237 7238 7239 GGTTTTATAT GGAGACACAG G 21 7240 (2) INFORMATION FOR SEQ ID NO:45: 7241 7242 (i) SEQUENCE CHARACTERISTICS: 7243 (A) LENGTH: 23 base pairs' 7244 7245 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 7246 (D) TOPOLOGY: linear 7247 7248 7249 7250 (A) NAME/KEY: 7251 (B) LOCATION:

(2) INFORMATION FOR SEQ ID NO:46:

GTATTTACAA TTTCAACACA AGC

(D) OTHER INFORMATION: 11ER primer

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

23

7252

7253

7254 7255

7256 7257

RAW SEQUENCE LISTING DATE: 06/04/98 PAGE: 12 PATENT APPLICATION US/09/084,471 TIME: 15:52:29 INPUT SET: S26434.raw 7259 (i) SEQUENCE CHARACTERISTICS: 7260 (A) LENGTH: 20 base pairs 7261 (B) TYPE: nucleic acid 7262 (C) STRANDEDNESS: single 7263 (D) TOPOLOGY: linear 7264 7265 7266 (A) NAME/KEY: 7267 7268 (B) LOCATION: 7269 (D) OTHER INFORMATION: 11FF primer 7270 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46: 7271 7272 ATCACAGTTT TGGAGGTAGC 20 7273 7274 7275 (2) INFORMATION FOR SEQ ID NO: 47: 7276 (i) SEQUENCE CHARACTERISTICS: 7277 (A) LENGTH: 21 base pairs 7278 (B) TYPE: nucleic acid 7279 (C) STRANDEDNESS: single 7280 7281 (D) TOPOLOGY: linear 7282 7283 (A) NAME/KEY: 7284 (B) LOCATION: 7285 (D) OTHER INFORMATION: 11FR primer 7286 7287 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47: 7288 7289 CTGACTTCCT GATTCTTCTA A 21 7290 7291 7292 (2) INFORMATION FOR SEQ ID NO:48: 7293 (i) SEQUENCE CHARACTERISTICS: 7294 (A) LENGTH: 21 base pairs 7295 (B) TYPE: nucleic acid 7296 (C) STRANDEDNESS: single 7297 7298 (D) TOPOLOGY: linear 7299 7300 (A) NAME/KEY: 7301 (B) LOCATION: 7302 (D) OTHER INFORMATION: 11GF primer 7303 7304 7305 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48: 7306 CTCAGATGTT ATTTTCCAAG C 21 7307 7308

(2) INFORMATION FOR SEQ ID NO:49:

PAGE: 13		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:52:31	
			INPUT SET: S26434.raw	
	7310 7311 7312 7313 7314 7315	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		
> >	7316 7317 <b>7318</b> <b>7319</b> <b>7320</b> 7321	(A) NAME/KEY: (B) LOCATION: (D) OTHER INFORMATION: 11GR primer		
	7322 7323 7324 7325	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	21	
	7326 7327	(2) INFORMATION FOR SEQ ID NO:50:		
	7328 7329 7330 7331 7332 7333	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		
> >	7334 <b>7335</b> <b>7336</b> <b>7337</b> 7338	(A) NAME/KEY: (B) LOCATION: (D) OTHER INFORMATION: 11HF primer		
	7339 7340 7341 7342	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	18	
	7361 7362	(2) INFORMATION FOR SEQ ID NO:52:		
	7363 7364 7365 7366 7367	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		
> >	7368 7369 <b>7370</b> <b>7371</b> <b>7372</b>	(A) NAME/KEY: (B) LOCATION: (D) OTHER INFORMATION: 111F primer		
	7373 7374 7375 7376	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	21	
	7377			

(2) INFORMATION FOR SEQ ID NO:53:

PAGE: 14		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:52:33
			INPUT SET: S26434.raw
	7379		
	7380	(i) SEQUENCE CHARACTERISTICS:	
	7381	(A) LENGTH: 21 base pairs	
	7382	(B) TYPE: nucleic acid	
	7383	(C) STRANDEDNESS: single	
	7384	(D) TOPOLOGY: linear	
	7385		
	7386		
>	7387	(A) NAME/KEY:	
>	7388	(B) LOCATION:	
>	7389	(D) OTHER INFORMATION: 11IR primer	
	7390	A-11 GEOMETRIE DEGODERATION, GEO. TR. MO. E.2.	
	7391	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	
	7392	GATCAGTAAA TAGCAAGTCC G	21
	7393 7394	GATCAGTAAA TAGCAAGTCC G	2 1
	1394		
	7395	(2) INFORMATION FOR SEQ ID NO:54:	
	7396	· · · · · · · · · · · · · · · · · · ·	
	7397	(i) SEQUENCE CHARACTERISTICS:	
	7398	(A) LENGTH: 23 base pairs	
	7399	(B) TYPE: nucleic acid	
	7400	(C) STRANDEDNESS: single	
	7401	(D) TOPOLOGY: linear	
	7402		
	7403		
>	7404	(A) NAME/KEY:	
>	7405	(B) LOCATION:	
>	7406	(D) OTHER INFORMATION: 11JF primer	
	7407	(wi) SEQUENCE DESCRIPTION, SEC ID NO.54.	
	7408	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
	7409 7410	TACTGAAAAT GAAGATAACA AAT	23
	7411	TACTGARANT GARGATARCA ART	
	,		
	7412	(2) INFORMATION FOR SEQ ID NO:55:	
	7413		
	7414	(i) SEQUENCE CHARACTERISTICS:	
	7415	(A) LENGTH: 22 base pairs	
	7416	(B) TYPE: nucleic acid	
	7417	(C) STRANDEDNESS: single	
	7418	(D) TOPOLOGY: linear	
	7419		
	7420	(A) NAME/KEY:	
	7421 7422	(B) LOCATION:	
>	7422	(D) OTHER INFORMATION: !!JR primer	
	7424	( ) ATTACAMATA TOTAL ON PATILINE	
	7425	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
	7426	( / <u></u>	
	7427	ATTTTGTTCT TTCTTATGTC AG	22
	7428		

(2) INFORMATION FOR SEQ ID NO:56:

PAGE: 15		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:52:34
			INPUT SET: S26434.raw
	7430 7431 7432 7433 7434 7435 7436 7437	<pre>(i) SEQUENCE CHARACTERISTICS:   (A) LENGTH: 35 base pairs   (B) TYPE: nucleic acid   (C) STRANDEDNESS: single   (D) TOPOLOGY: linear</pre>	
>	7438 7439	(B) LOCATION:	
>	7440	(D) OTHER INFORMATION: 11KF-M13 primer	
	7441 7442	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
	7442	(AI) DEGOTAGE DESCRIPTION. DEG ID NO.30.	
	7444 7445	TGTAAAACGA CGGCCAGTCT ACTAAAACGG AGCAA	35
	7446	(2) INFORMATION FOR SEQ ID NO:57:	
	7447	(1) GROUPINGE GUADAGMERTGETGG.	
	7448 7449	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 35 base pairs</li></ul>	
	7450	(B) TYPE: nucleic acid	
	7451	(C) STRANDEDNESS: single	
	7452	(D) TOPOLOGY: linear	
	7453		·
	7454		
>	7455	(A) NAME/KEY:	
>	7456	(B) LOCATION:	
>	7457	(D) OTHER INFORMATION: 11KR-M13 primer	
	7458 7459	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
	7459	(XI) SEQUENCE DESCRIPTION. SEQ IS NO.37.	
	7461	CAGGAAACAG CTATGACCGT ATGAAAACCC AACAG	35
	7462		
	7463	(2) INFORMATION FOR SEQ ID NO:58:	
	7464		
	7465	(i) SEQUENCE CHARACTERISTICS:	
	7466	(A) LENGTH: 22 base pairs (B) TYPE: nucleic acid	
	7467 7468	(C) STRANDEDNESS: single	
	7469	(D) TOPOLOGY: linear	
	7470	(2) 202020 20020	
	7471		,
>	7472	(A) NAME/KEY:	
>	7473	(B) LOCATION:	
>	7474	(D) OTHER INFORMATION: 11LF primer	
	7475	(	
	7476 7477	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
	7477 7478	CACAAAATAC TGAAAGAAAG TG	22
	7479		

(2) INFORMATION FOR SEQ ID NO:59:

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:36

			INPUT SET: S26434.raw
	7481		
	7482	(i) SEQUENCE CHARACTERISTICS:	
	7483	(A) LENGTH: 19 base pairs	
	7484	(B) TYPE: nucleic acid	
	7485	(C) STRANDEDNESS: single	
	7486	(D) TOPOLOGY: linear	
	7487		
	7488		
>	7489	(A) NAME/KEY:	
>	7490	(B) LOCATION:	
>	7491	(D) OTHER INFORMATION: 11LR primer	
	7492		
	7493	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
	7494		
	7495	GGCACCACAG TCTCAATAG	19
	7496		
	7497	(2) INFORMATION FOR SEQ ID NO:60:	
	7497	(2) THE OTHER TON DON'T TO MOTOR	
	7499	(i) SEQUENCE CHARACTERISTICS:	
	7500	(A) LENGTH: 20 base pairs	
	7501	(B) TYPE: nucleic acid	
	7501	(C) STRANDEDNESS: single	
	7502	(D) TOPOLOGY: linear	
	7503 7504	(D) TOPOLOGI: IIMedi	
	7505	(A) NAME/KEY:	
>	7506	(B) LOCATION:	
>	7507	(b) LOCATION: (D) OTHER INFORMATION: 11MF primer	
>	7508	(D) OTHER INFORMATION: IIMF primer	
	7509	A GEOVERIGE DECORPTIONS GEO ID NO.60.	
	7510	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
	7511	GGRERGE GGG TERREGE GE	20
	7512	GCAAAGACCC TAAAGTACAG	20
	7513		
•	7514	(2) INFORMATION FOR SEQ ID NO:61:	
	7515		
	7516	(i) SEQUENCE CHARACTERISTICS:	
	7517	(A) LENGTH: 22 base pairs	
	7518	(B) TYPE: nucleic acid	
	7519	(C) STRANDEDNESS: single	
	7520	(D) TOPOLOGY: linear	
	7521		
	7522		
>	7523	(A) NAME/KEY:	
>	7524	(B) LOCATION:	
>	7525	(D) OTHER INFORMATION: 11MR primer	
	7526		
	7527	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:	
	7528		
	7529	CATCAAATAT TCCTTCTCTA AG	22
	7530		
	7521	(2) INFORMATION FOR SEQ ID NO:62:	
	7531	(S) THEOREMITON FOR SEA ID MO-05:	

RAW SEQUENCE LISTING DATE: 06/04/98 PAGE: 17 PATENT APPLICATION US/09/084,471 TIME: 15:52:38 INPUT SET: S26434.raw 7532 (i) SEQUENCE CHARACTERISTICS: 7533 7534 (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid 7535 (C) STRANDEDNESS: single 7536 (D) TOPOLOGY: linear 7537 7538 7539 (A) NAME/KEY: 7540 7541 (B) LOCATION: (D) OTHER INFORMATION: 11NF-M13 primer 7542 7543 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62: 7544 7545 35 TGTAAAACGA CGGCCAGTGA AAATTCAGCC TTAGC 7546 7547 7548 (2) INFORMATION FOR SEQ ID NO:63: 7549 (i) SEQUENCE CHARACTERISTICS: 7550 (A) LENGTH: 35 base pairs 7551 (B) TYPE: nucleic acid 7552 (C) STRANDEDNESS: single 7553 (D) TOPOLOGY: linear 7554 7555 7556 (A) NAME/KEY: 7557 7558 (B) LOCATION: (D) OTHER INFORMATION: 11NR-M13 primer 7559 7560 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63: 7561 7562 35 CAGGAAACAG CTATGACCAT CAGAATGGTA GGAAT 7563 7564 (2) INFORMATION FOR SEQ ID NO:64: 7565 7566 (i) SEQUENCE CHARACTERISTICS: 7567 (A) LENGTH: 22 base pairs 7568 7569 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 7570 7571 (D) TOPOLOGY: linear 7572 7573 (A) NAME/KEY: 7574 7575 (B) LOCATION: 7576 (D) OTHER INFORMATION: 110F primer 7577 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64: 7578 7579

GTACTATAGC TGAAAATGAC AA

(2) INFORMATION FOR SEQ ID NO:65:

7580 7581 7582

RAW SEQUENCE LISTING DATE: 06/04/98 **PAGE: 18** PATENT APPLICATION US/09/084,471 TIME: 15:52:39 INPUT SET: S26434.raw 7583 (i) SEQUENCE CHARACTERISTICS: 7584 (A) LENGTH: 20 base pairs 7585 (B) TYPE: nucleic acid 7586 (C) STRANDEDNESS: single 7587 (D) TOPOLOGY: linear 7588 7589 7590 7591 (A) NAME/KEY: --> (B) LOCATION: --> 7592 (D) OTHER INFORMATION: 110R primer 7593 7594 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65: 7595 7596 20 ACCACTGGCT ATCCTAAATG 7597 7598 (2) INFORMATION FOR SEQ ID NO:66: 7599 7600 (i) SEQUENCE CHARACTERISTICS: 7601 (A) LENGTH: 20 base pairs 7602 (B) TYPE: nucleic acid 7603 (C) STRANDEDNESS: single 7604 (D) TOPOLOGY: linear 7605 7606 7607 (A) NAME/KEY: 7608 (B) LOCATION: 7609 (D) OTHER INFORMATION: 11PF primer 7610 7611 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66: 7612 7613 20 TGAAGATATT TGCGTTGAGG 7614 7615 (2) INFORMATION FOR SEQ ID NO:67: 7616 7617 (i) SEQUENCE CHARACTERISTICS: 7618 7619 (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid 7620 (C) STRANDEDNESS: single 7621 (D) TOPOLOGY: linear 7622 7623 7624 (A) NAME/KEY: 7625 (B) LOCATION: 7626 (D) OTHER INFORMATION: 11PR primer 7627

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

(2) INFORMATION FOR SEQ ID NO:68:

GTCAGCAAAA ACCTTATGTG

20

7628

7629 7630

7631 7632

PAGE: 19		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:52:41	
			INPUT SET: S2	6434.raw
	7634 7635 7636	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs		
	7637	(B) TYPE: nucleic acid		
	7638	(C) STRANDEDNESS: single		
	7639	(D) TOPOLOGY: linear		
	7640			
	7641			
>	7642	(A) NAME/KEY:		
>	7643	(B) LOCATION:		
>	7644	(D) OTHER INFORMATION: 11QF primer		
	7645	A CONTRACT PROGRAMMENT OF NO. CO.		
	7646	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:		
	7647	ACCARANTE TOCOACCETO D		21
	7648 7649	ACGAAATTA TGGCAGGTTG T		21
	7649			
	7650	(2) INFORMATION FOR SEQ ID NO:69:	•••	
	7/61	A LANDAUGH CIVED CHIEF CONTACT		
	7652	(i) SEQUENCE CHARACTERISTICS:		•
	7653	(A) LENGTH: 21 base pairs (B) TYPE: nucleic acid		
	7654	<b>,</b>		
	7655	(C) STRANDEDNESS: single (D) TOPOLOGY: linear		
	7656 7657	(D) TOPOLOGY: IIMedi		
	7657 7658			
	7659	(A) NAME/KEY:		
<	7660	(B) LOCATION:		
>	7661	(D) OTHER INFORMATION: 11QR primer		
	7662	(b) VIIIII INI OMMITTON. II ga primor		
	7663	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:		
	7664	(III) Daganion Danotti I I on v Dag III in over v		
	7665	CTTGTCTTGC GTTTTGTAAT G		21
	7666			
		AND THE PROPERTY OF STORY OF THE WOLLD		
	7667 7668	(2) INFORMATION FOR SEQ ID NO:70:		
		(i) GEOLENGE GUADAGMEDIGMIGG.		
	7669 7670	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 20 base pairs</li></ul>		
	7671	(B) TYPE: nucleic acid		
	7671 7672	(C) STRANDEDNESS: single		
	7672	(D) TOPOLOGY: linear		
	7674	(b) for one of the car		
	7675			
>	7676	(A) NAME/KEY:		
>	7677	(B) LOCATION:		
>	7678	(D) OTHER INFORMATION: 11RF primer		
-	7679			
	7680	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:		
	7681	· · · · · · · · · · · · · · · · · · ·		
	7682	GCTTCATAAG TCAGTCTCAT		20
	7683			

(2) INFORMATION FOR SEQ ID NO:71:

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:42

			INPUT SET: S26434.raw
	7685		
	7686	(i) SEQUENCE CHARACTERISTICS:	
	7687	(A) LENGTH: 20 base pairs	
	7688	(B) TYPE: nucleic acid	
	7689	(C) STRANDEDNESS: single	
	7690	(D) TOPOLOGY: linear	
	7691	(=, ===================================	
	7692		
	7693	(A) NAME/KEY:	
(	7693 7694	(B) LOCATION:	
>	7695	(D) OTHER INFORMATION: 11RR prime)	
	7696		
	7697	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
	7698		
	7699	TCAAATTCCT CTAACACTCC	20
	7700	•	
	7701	(2) INFORMATION FOR SEQ ID NO:72:	
	7702	/ - /	
	7703	(i) SEQUENCE CHARACTERISTICS:	•
	7704	(A) LENGTH: 35 base pairs	
	7705	(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single	
	7706		
	7707	(D) TOPOLOGY: linear	
	7708		
	7709		
>	7710	(A) NAME/KEY:	
>	7711	(B) LOCATION:	
>	7712	(D) OTHER INFORMATION: 11SF-M13 primer	
	7713		
	7714	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
	7715		
	7716	TGTAAAACGA CGGCCAGTTA CAGCAAGTGG AAAGC	35
	7717		
	7718	(2) INFORMATION FOR SEQ ID NO:73:	
	7719	(2) INFORMATION FOR DEG ID NO. 75.	
		(i) SEQUENCE CHARACTERISTICS:	
	7720	· · · · · · · · · · · · · · · · · · ·	
	7721	(A) LENGTH: 37 base pairs	
	7722	(B) TYPE: nucleic acid	
	7723	(C) STRANDEDNESS: single	
	7724	(D) TOPOLOGY: linear	
	7725		
	7726		
>	7727	(A) NAME/KEY:	
>	7728	(B) LOCATION:	
>	7729	(D) OTHER INFORMATION: 11SR-M13 primer	
	7730		
	7731	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
	7732	//	
	7732	CAGGAAACAG CTATGACCAA GTTTCAGTTT TACCAAT	37
	7734	OROGRAMONO CIRIOROSMA GIIICMGIII IMCCMI	2,
	7735	(2) INFORMATION FOR SEQ ID NO:74:	

RAW SEQUENCE LISTING DATE: 06/04/98 PAGE: 21 PATENT APPLICATION US/09/084,471 TIME: 15:52:44 INPUT SET: S26434.raw 7736 (i) SEQUENCE CHARACTERISTICS: 7737 (A) LENGTH: 22 base pairs 7738 (B) TYPE: nucleic acid 7739 (C) STRANDEDNESS: single 7740 (D) TOPOLOGY: linear 7741 7742 7743 (A) NAME/KEY: 7744 (B) LOCATION: 7745 (D) OTHER INFORMATION: 11TF primer 7746 7747 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74: 7748 7749 22 GTTCTTCAGA AAATAATCAC TC 7750 7751 (2) INFORMATION FOR SEQ ID NO:75: 7752 7753 (i) SEQUENCE CHARACTERISTICS: 7754 (A) LENGTH: 21 base pairs 7755 (B) TYPE: nucleic acid 7756 (C) STRANDEDNESS: single 7757 7758 (D) TOPOLOGY: linear 7759 7760 (A) NAME/KEY: 7761 (B) LOCATION: 7762 (D) OTHER INFORMATION: 11TR primer 7763 7764 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75: 7765 7766 21 TGTAAAAAGA GAATGTGTGG C 7767 7768 7769 (2) INFORMATION FOR SEQ ID NO: 76: 7770 (i) SEQUENCE CHARACTERISTICS: 7771 (A) LENGTH: 39 base pairs 7772 (B) TYPE: nucleic acid 7773 (C) STRANDEDNESS: single 7774 (D) TOPOLOGY: linear 7775 7776 7777 (A) NAME/KEY: 7778 (B) LOCATION: 7779 (D) OTHER INFORMATION: 11UF-M13 primer 7780 7781 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76: 7782 7783 39 TGTAAAACGA CGGCCAGTAC TTTTTCTGAT GTTCCTGTG 7784

(2) INFORMATION FOR SEQ ID NO:77:

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:46

			INPUT SET: S26434.raw
	7787		
	7788	(i) SEQUENCE CHARACTERISTICS:	
	7789	(A) LENGTH: 39 base pairs	
	7790	(B) TYPE: nucleic acid	
	7791	(C) STRANDEDNESS: single	
	7792	(D) TOPOLOGY: linear	
	7793		
	7794	C. C	
>	7795	(A) NAME/KEY:	•
>	7796	(B) LOCATION:	
>	7797	(D) OTHER INFORMATION: 11UR-M13 primer	
	7798		
	7799	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:	
	7800		
	7801	CAGGAAACAG CTATGACCTA AAAATAGTGA TTGGCAACA	39
	7802		
	7803	(2) INFORMATION FOR SEQ ID NO:78:	
	7804	·	
	7805	(i) SEQUENCE CHARACTERISTICS:	•
	7806	(A) LENGTH: 42 base pairs	
	7807	(B) TYPE: nucleic acid	
	7808	(C) STRANDEDNESS: single	
	7809	(D) TOPOLOGY: linear	
	7810		
	7811		•
>	7812	(A) NAME/KEY:	
>	7813	(B) LOCATION:	
>	7814	(D) OTHER INFORMATION: 12F/M13F primer	
	7815	A CHANTING DECORPTION OF TO VALUE	
	7816	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:	
	7817	moma a a constant di modmomenta a a dimodica a a a	42
	7818 7819	TGTAAAACGA CGGCCAGTAG TGGTGTTTTA AAGTGGTCAA AA	42
	7820	(2) INFORMATION FOR SEQ ID NO:79:	
	7821	/ CHOLLENGE OURDROMEDICATOR	
	7822	(i) SEQUENCE CHARACTERISTICS:	
	7823	(A) LENGTH: 40 base pairs	
	7824	(B) TYPE: nucleic acid	
	7825	(C) STRANDEDNESS: single	
	7826	(D) TOPOLOGY: linear	
	7827		
	7828	(A) MANTE (WING.	
>	7829	(A) NAME/KEY:	
>	7830	(B) LOCATION:	
>	7831	(D) OTHER INFORMATION: 12R/M13R primer	
	7832	(mi) CEOUENCE DECOPTEMENT CEO TO NO. 70.	
	7833	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:	
	7834	CACCAAACAC COMANCACCCC AMCCACCOMCA CCMCACAAMA	40
	7835 7836	CAGGAAACAG CTATGACCGG ATCCACCTGA GGTCAGAATA	4 U
	, 030		
	7837	(2) INFORMATION FOR SEQ ID NO:80:	

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:52:47

			INPUT SET: S26434.ray	v
	7838	v		
	7839	(i) SEQUENCE CHARACTERISTICS:		
	7840	(A) LENGTH: 21 base pairs		
	7841	(B) TYPE: nucleic acid		
	7842	(C) STRANDEDNESS: single		
	7843	(D) TOPOLOGY: linear		
	7844	(5) 101010011 1111011		
	7845			
	7846	(A) NAME/KEY:	•	
	7847	(B) LOCATION:		
/		(D) OTHER INFORMATION: 13-2F primer		
>	7848	(D) OTHER INFORMATION. 13-21 PITMEL		
	7849	And anomeros pecapipaton, and in Mo. 90.		
	7850	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:		
	7851			0.1
	7852	TAACATTTAA GCATCCGTTA C		21
	7853			
	7854	(2) INFORMATION FOR SEQ ID NO:81:		
	7855	(a) minoritation not make me interest		
	7856	(i) SEQUENCE CHARACTERISTICS:		
	7857	(A) LENGTH: 28 base pairs		
	7858	(B) TYPE: nucleic acid		
		(C) STRANDEDNESS: single		
	7859	(D) TOPOLOGY: linear		
	7860	(D) TOPOLOGY: Illear		
	7861			
	7862			
>	7863	(A) NAME/KEY:		
>	7864	(B) LOCATION:		
>	7865	(D) OTHER INFORMATION: 13-2R primer		
	7866			
	7867	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:		
	7868			
	7869	AAACGAGACT TTTCTCATAC TGTATTAG		28
	7870			
	7871	(2) INFORMATION FOR SEQ ID NO:82:		
	7871 7872	(2) INFORMATION FOR DEG ID NO.02.		
	7872 7873	(i) SEQUENCE CHARACTERISTICS:		
	7874 7874	(A) LENGTH: 22 base pairs		
		(A) LENGTH: 22 base pairs (B) TYPE: nucleic acid		
	7875	· · · · · · · · · · · · · · · · · · ·		
	7876	(C) STRANDEDNESS: single		
	7877	(D) TOPOLOGY: linear		
	7878			
	7879			
>	7880	(A) NAME/KEY:		
>	7881	(B) LOCATION:		
>	7882	(D) OTHER INFORMATION: 14F primer		
	7883			
	7884	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:		
	7885			
	7886	ACCATGTAGC AAATGAGGGT CT		22
	7887			
		/A) THEON/RELOW FOR ORD TO MO. AC		
	7888	(2) INFORMATION FOR SEQ ID NO:83:		

RAW SEQUENCE LISTING DATE: 06/04/98 PAGE: 24 PATENT APPLICATION US/09/084,471 TIME: 15:52:49 INPUT SET: S26434.raw 7889 7890 (i) SEQUENCE CHARACTERISTICS: 7891 (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid 7892 (C) STRANDEDNESS: single 7893 7894 (D) TOPOLOGY: linear 7895 7896 (A) NAME/KEY: 7897 7898 (B) LOCATION: (D) OTHER INFORMATION: 14AR primer 7899 7900 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83: 7901 7902 GCTTTTGTCT GTTTTCCTCC AA 22 7903 7904 (2) INFORMATION FOR SEQ ID NO:84: 7905 7906 (i) SEQUENCE CHARACTERISTICS: 7907 7908 (A) LENGTH: 21 base pairs 7909 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 7910 (D) TOPOLOGY: linear 7911 7912 7913 (A) NAME/KEY: 7914 (B) LOCATION: 7915 7916 (D) OTHER INFORMATION: 15-2F primer 7917 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84: 7918 7919 21 7920 CCAGGGGTTG TGCTTTTTAA A 7921 7922 (2) INFORMATION FOR SEQ ID NO:85: 7923 (i) SEQUENCE CHARACTERISTICS: 7924 7925 (A) LENGTH: 38 base pairs 7926 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 7927 (D) TOPOLOGY: linear 7928 7929 7930 (A) NAME/KEY: 7931 7932 (B) LOCATION: (D) OTHER INFORMATION: 15FUT/M13-R primer 7933

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

(2) INFORMATION FOR SEQ ID NO:86:

CAGGAAACAG CTATGACCAC TCTGTCATAA AAGCCATC

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PAGE: 25		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:52:51
			INPUT SET: S26434.raw
	7940		11.1 O 1 22.21 D - 0.10 11.41
	7941	(i) SEQUENCE CHARACTERISTICS:	
	7942	(A) LENGTH: 24 base pairs	
	7943	(B) TYPE: nucleic acid	
	7944	(C) STRANDEDNESS: single	
	7945	(D) TOPOLOGY: linear	
	7946		
	7947		
>	7948	(A) NAME/KEY:	
>	7949	(B) LOCATION:	
>	7950	(D) OTHER INFORMATION: 16AF primer	
	7951	And the state of t	
	7952	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
	7953		
	7954	TTTGGTTTGT TATAATTGTT TTTA	24
	7955		
	7956	(2) INFORMATION FOR SEQ ID NO:87:	
	7957		
	7958	(i) SEQUENCE CHARACTERISTICS:	
	7959	(A) LENGTH: 20 base pairs	
	7960	(B) TYPE: nucleic acid	
	7961	(C) STRANDEDNESS: single	
	7962	(D) TOPOLOGY: linear	
	7963		
	7964		
>	7965	(A) NAME/KEY:	
>	7966	(B) LOCATION:	
>	7967	(D) OTHER INFORMATION: 16AR primer	
	7968	(i) GEOVERIGE DECORPTION, CEO TO NO. 97.	
	7969	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:	
	7970		20
	7971 7972	CCAACTTTTT AGTTCGAGAG	20
	1912		
	7973	(2) INFORMATION FOR SEQ ID NO:88:	
	7974	_	
	7975	(i) SEQUENCE CHARACTERISTICS:	
	7976	(A) LENGTH: 19 base pairs	
	7977	(B) TYPE: nucleic acid	
	7978	(C) STRANDEDNESS: single	
	7979	(D) TOPOLOGY: linear	
	7980	· ·	
	7981		
>	7982	(A) NAME/KEY:	
>	7983	(B) LOCATION:	
>	7984	(D) OTHER INFORMATION: 17F primer	
	7985		
	7986	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:	
	7987		
	7988	TTCAGTATCA TCCTATGTG	19
	7989		

(2) INFORMATION FOR SEQ ID NO:89:

RAW SEQUENCE LISTING PAGE: 26 DATE: 06/04/98 PATENT APPLICATION US/09/084,471 TIME: 15:52:52 INPUT SET: S26434.raw 7991 (i) SEQUENCE CHARACTERISTICS: 7992 7993 (A) LENGTH: 20 base pairs 7994 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 7995 (D) TOPOLOGY: linear 7996 7997 7998 (A) NAME/KEY: 7999 8000 (B) LOCATION: (D) OTHER INFORMATION: 17AR primer 8001 8002 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89: 8003 8004 AGAAACCTTA ACCCATACTG 20 8005 8006 8007 (2) INFORMATION FOR SEQ ID NO:90: 8008 8009 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs 8010 (B) TYPE: nucleic acid 8011 8012 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 8013 8014 8015 8016 (A) NAME/KEY: (B) LOCATION: 8017 8018 (D) OTHER INFORMATION: 18FUT/M13-AF primer 8019 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90: 8020 8021 8022 TGTAAAACGA CGGCCAGTGA ATTCTAGAGT CACACTTCC 39 8023 8024 (2) INFORMATION FOR SEQ ID NO:91: 8025 8026 (i) SEQUENCE CHARACTERISTICS: 8027 (A) LENGTH: 38 base pairs 8028 (B) TYPE: nucleic acid 8029 (C) STRANDEDNESS: single 8030 (D) TOPOLOGY: linear 8031 8032 8033 (A) NAME/KEY: 8034 (B) LOCATION: (D) OTHER INFORMATION: 18R/M13R primer 8035

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

(2) INFORMATION FOR SEQ ID NO: 92:

CAGGAAACAG CTATGACCTT TAACTGAATC AATGACTG

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8036

8037 8038

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**RAW SEQUENCE LISTING** DATE: 06/04/98 PAGE: 27 PATENT APPLICATION US/09/084,471 TIME: 15:52:54 INPUT SET: S26434.raw 8042 (i) SEQUENCE CHARACTERISTICS: 8043 (A) LENGTH: 41 base pairs 8044 (B) TYPE: nucleic acid 8045 8046 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 8047 8048 8049 (A) NAME/KEY: 8050 (B) LOCATION: 8051 (D) OTHER INFORMATION: 19F/M13F primer 8052 8053 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: 8054 8055 TGTAAAACGA CGGCCAGTAA GTGAATATTT TTAAGGCAGT T 41 8056 8057 8058 (2) INFORMATION FOR SEQ ID NO:93: 8059 (i) SEQUENCE CHARACTERISTICS: 8060 (A) LENGTH: 39 base pairs 8061 (B) TYPE: nucleic acid 8062 (C) STRANDEDNESS: single 8063 8064 (D) TOPOLOGY: linear 8065 8066 (A) NAME/KEY: 8067 (B) LOCATION: 8068 (D) OTHER INFORMATION: 19FUT/M13-R primer 8069 8070 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93: 8071 8072 39 CAGGAAACAG CTATGACCAA GAGACCGAAA CTCCATCTC 8073 8074 (2) INFORMATION FOR SEQ ID NO:94: 8075 8076 (i) SEQUENCE CHARACTERISTICS: 8077 (A) LENGTH: 38 base pairs 8078 (B) TYPE: nucleic acid 8079 (C) STRANDEDNESS: single 8080 (D) TOPOLOGY: linear 8081 8082 8083 (A) NAME/KEY: 8084 (B) LOCATION: 8085 (D) OTHER INFORMATION: 20F/M13F primer 8086 8087 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94: 8088 8089 38 TGTAAAACGA CGGCCAGTCA CTGTGCCTGG CCTGATAC

(2) INFORMATION FOR SEQ ID NO:95:

RAW SHOUENCE LISTING DATE: 06/04/98 **PAGE: 28** PATENT APPLICATION US/09/084,471 TIME: 15:52:56 INPUT SET: S26434.raw 8093 (i) SEQUENCE CHARACTERISTICS: 8094 (A) LENGTH: 39 base pairs 8095 (B) TYPE: nucleic acid 8096 (C) STRANDEDNESS: single 8097 (D) TOPOLOGY: linear 8098 8099 8100 (A) NAME/KEY: 8101 (B) LOCATION: 8102 (D) OTHER INFORMATION: 20R/M13R primer 8103 8104 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95: 8105 8106 39 8107 CAGGAAACAG CTATGACCAT GTTAAATTCA AAGTCTCTA 8108 8109 (2) INFORMATION FOR SEQ ID NO:96: 8110 (i) SEQUENCE CHARACTERISTICS: 8111 (A) LENGTH: 39 base pairs 8112 (B) TYPE: nucleic acid 8113 (C) STRANDEDNESS: single 8114 (D) TOPOLOGY: linear 8115 8116 8117 (A) NAME/KEY: 8118 (B) LOCATION: 8119 (D) OTHER INFORMATION: 21F/M13F primer 8120 8121 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96: 8122 8123 TGTAAAACGA CGGCCAGTGG GTGTTTTATG CTTGGTTCT 39 8124 8125 (2) INFORMATION FOR SEQ ID NO:97: 8126 8127 8128 (i) SEQUENCE CHARACTERISTICS: 8129 (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid 8130 (C) STRANDEDNESS: single 8131 (D) TOPOLOGY: linear 8132 8133 8134 (A) NAME/KEY: 8135 (B) LOCATION: 8136

(D) OTHER INFORMATION: 21R/M13R primer

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

(2) INFORMATION FOR SEQ ID NO:98:

CAGGAAACAG CTATGACCCA TTTCAACATA TTCCTTCCTG

8137 8138

8139 8140

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8142

PAGE: 29		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:52:57
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	8145	(i) SEQUENCE CHARACTERISTICS:	
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	8147	(B) TYPE: nucleic acid	
	8148	(C) STRANDEDNESS: single	
	8149	(D) TOPOLOGY: linear	
	8150		
	8151		
>	8152	(A) NAME/KEY:	
>	8153	(B) LOCATION:	
>	8154	(D) OTHER INFORMATION: 22F-1A primer	
	8155		
	8156	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:	
	8157		10
	8158	AACCACACCC TTAAGATGA	19
	8159		
	8160	(2) INFORMATION FOR SEQ ID NO:99:	
	8161	( ) A STANDARD CONTRACTOR	
	8162	(i) SEQUENCE CHARACTERISTICS:	
	8163	(A) LENGTH: 20 base pairs	
	8164	(B) TYPE: nucleic acid	
	8165	(C) STRANDEDNESS: single	
	8166	(D) TOPOLOGY: linear	
	8167		
	8168	(A) NAME/KEY:	
>	8169	(B) LOCATION:	
>	8170 8171	(b) OTHER INFORMATION: 22R-1A primer	
8172			
	8173	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:	
	8174	(AI) DEGODNES DEDORITIZON. DEG ID NO.33.	
	8175	GCATTAGTAG TGGATTTTGC	20
	8176	CONTINUING TOURITTIES	
	8177	(2) INFORMATION FOR SEQ ID NO:100:	
	8178	\-/	
	8179	(i) SEOUENCE CHARACTERISTICS:	
	8180	(A) LENGTH: 16 base pairs	
	8181	(B) TYPE: nucleic acid	
	8182	(C) STRANDEDNESS: single	
	8183	(D) TOPOLOGY: linear	
	8184		
	8185		
>	8186	(A) NAME/KEY:	
>	8187	(B) LOCATION:	
>	8188	(D) OTHER INFORMATION: 23FII primer	
	8189		
	8190	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:	
	8191		
	8192	TCACTTCCAT TGCATC	16
	8193		
	8194	(2) INFORMATION FOR SEQ ID NO:101:	

RAW SEQUENCE LISTING DATE: 06/04/98 PAGE: 30 PATENT APPLICATION US/09/084,471 TIME: 15:52:59 INPUT SET: S26434.raw 8195 (i) SEQUENCE CHARACTERISTICS: 8196 (A) LENGTH: 17 base pairs 8197 (B) TYPE: nucleic acid 8198 (C) STRANDEDNESS: single 8199 (D) TOPOLOGY: linear 8200 8201 8202 (A) NAME/KEY: 8203 8204 (B) LOCATION: (D) OTHER INFORMATION: 23RII primer 8205 8206 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101: 8207 8208 17 TGCCAACTGG TAGCTCC 8209 8210 (2) INFORMATION FOR SEQ ID NO:102: 8211 8212 (i) SEQUENCE CHARACTERISTICS: 8213 (A) LENGTH: 20 base pairs 8214 (B) TYPE: nucleic acid 8215 (C) STRANDEDNESS: single 8216 8217 (D) TOPOLOGY: linear 8218 8219 (A) NAME/KEY: 8220 (B) LOCATION: 8221 (D) OTHER INFORMATION: 24 2F primer 8222 8223 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102: 8224 8225 20 TACAGTTAGC AGCGACAAAA 8226 8227 8228 (2) INFORMATION FOR SEQ ID NO:103: 8229 (i) SEQUENCE CHARACTERISTICS: 8230 (A) LENGTH: 38 base pairs 8231 (B) TYPE: nucleic acid 8232 (C) STRANDEDNESS: single 8233 (D) TOPOLOGY: linear 8234 8235 8236 (A) NAME/KEY: 8237 (B) LOCATION: 8238 (D) OTHER INFORMATION: 24R/M13R primer 8239 8240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103: 8241 8242 38 CAGGAAACAG CTATGACCAT TTGCCAACTG GTAGCTCC 8243

(2) INFORMATION FOR SEQ ID NO:104:

RAW SEQUENCE LISTING **PAGE: 31** DATE: 06/04/98 PATENT APPLICATION US/09/084,471 TIME: 15:53:01 INPUT SET: S26434.raw 8246 8247 (i) SEQUENCE CHARACTERISTICS: 8248 (A) LENGTH: 20 base pairs 8249 (B) TYPE: nucleic acid 8250 (C) STRANDEDNESS: single 8251 (D) TOPOLOGY: linear 8252 8253 (A) NAME/KEY: 8254 (B) LOCATION: 8255 (D) OTHER INFORMATION: 25F-7/23 primer 8256 8257 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104: 8258 8259 8260 GCTTTCGCCA AATTCAGCTA 20 8261 8262 (2) INFORMATION FOR SEQ ID NO:105: 8263 (i) SEQUENCE CHARACTERISTICS: 8264 8265 (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid 8266 (C) STRANDEDNESS: single 8267 8268 (D) TOPOLOGY: linear 8269 8270 (A) NAME/KEY: 8271 (B) LOCATION: 8272 8273 (D) OTHER INFORMATION: 25R-7/23 primer 8274 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105: 8275 8276 TACCAAAATG TGTGGTGATG 20 8277 8278 8279 (2) INFORMATION FOR SEQ ID NO:106: 8280 (i) SEQUENCE CHARACTERISTICS: 8281 (A) LENGTH: 20 base pairs 8282 8283 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 8284 8285 (D) TOPOLOGY: linear 8286 8287 8288 (A) NAME/KEY: --> 8289 (B) LOCATION: 8290 (D) OTHER INFORMATION: 26-2F primer 8291 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106: 8292 8293

(2) INFORMATION FOR SEQ ID NO:107:

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AATCACTGAT ACTGGTTTTG

### RESPRENCE CHARACTERISTICS:  ### RESPRENCE CHARACTERISTICS:	DATE: 06/04/98 TIME: 15:53:02	
### ### ### ### ### ### ### ### ### ##		
8299 (A) LENGTH: 20 base pairs 8300 (B) TYPE: nucleic acid 8301 (C) STRANDEDNESS: single 8302 (D) TOPOLOGY: linear 8303 8304> 8305 (B) LOCATION: (C) OTHER INFORMATION: 26-2R primer 8308 8309 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: 8310 8311 TATACTTACA GGAGCCACAT 8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8300 (B) TYPE: nucleic acid 8301 (C) STRANDEDNESS: single 8302 (D) TOPOLOGY: linear 8303 8304> 8305 (B) LOCATION: (C) OTHER INFORMATION: 26-2R primer 8308 8309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: 8310 8311 TATACTTACA GGAGCCACAT 8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
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## 8304		
> 8305> 8306 (A) NAME/KEY: (B) LOCATION: (D) OTHER INFORMATION: 26-2R primer  8308 8309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: 8310 8311 TATACTTACA GGAGCCACAT 20 8312  (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
> 8306> 8307 (D) OTHER INFORMATION: 26-2R primer  8308 8309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: 8310 8311 TATACTTACA GGAGCCACAT 20 8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
> 8307 (D) OTHER INFORMATION: 26-2R primer  8308 8309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: 8310 8311 TATACTTACA GGAGCCACAT 20 8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8308 8309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: 8310 8311 TATACTTACA GGAGCCACAT 20 8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8309 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: 8310 8311 TATACTTACA GGAGCCACAT 20 8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8310 8311 TATACTTACA GGAGCCACAT  8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8311 TATACTTACA GGAGCCACAT 20 8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8312  8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8313 (2) INFORMATION FOR SEQ ID NO:108: 8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8314 8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8315 (i) SEQUENCE CHARACTERISTICS: 8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8316 (A) LENGTH: 18 base pairs 8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8317 (B) TYPE: nucleic acid 8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8318 (C) STRANDEDNESS: single 8319 (D) TOPOLOGY: linear		
8319 (D) TOPOLOGY: linear		
, ,		
0.220		
8320		
8321		
> 8322 (A) NAME/KEY:		
> 8323 (B) LOCATION:		
> 8324 (D) OTHER INFORMATION: 27AF-1A primer		
8325		
8326 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:		
8327		
8328 CTGTGTGTAA TATTTGCG 18		
8329		
8330 (2) INFORMATION FOR SEQ ID NO:109:		
8331		
8332 (i) SEQUENCE CHARACTERISTICS:		
8333 (A) LENGTH: 40 base pairs		
8334 (B) TYPE: nucleic acid		
8335 (C) STRANDEDNESS: single		
8336 (D) TOPOLOGY: linear		
8337		
8338		
> 8339 (A) NAME/KEY:		
> 8340 (B) LOCATION:		
> 8341 (D) OTHER INFORMATION: 27AR/M13R primer		
8342		
8343 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:		
8344		
8345 CAGGAAACAG CTATGACGGC AAGTTCTTCG TCAGCTATTG 40		
8346		

(2) INFORMATION FOR SEQ ID NO:110:

PAGE: 33		RAW SEQUENCE LISTING PATENT APPLICATION US/09/084,471	DATE: 06/04/98 TIME: 15:53:04
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	8349	(i) SEQUENCE CHARACTERISTICS:	
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	8352	(C) STRANDEDNESS: single	
	8353	(D) TOPOLOGY: linear	
	8354		
	8355		
>	8356	(A) NAME/KEY:	
>	8357	(B) LOCATION:	
>	8358	(D) OTHER INFORMATION: 27BF/M13F primer	
	8359		
8360 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110: 8361			
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	0303		
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	8365		
	8366	(i) SEQUENCE CHARACTERISTICS:	
	8367	(A) LENGTH: 38 base pairs	
	8368	(B) TYPE: nucleic acid	
	8369	(C) STRANDEDNESS: single	
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	8371		
	8372		
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>	8374 8375	(B) LOCATION: (D) OTHER INFORMATION: 27BR/M13R primer	
>	8375 8376	(D) OTHER INFORMATION: 2/DR/MISK Primer	
	8377	(XI) SEQUENCE DESCRIPTION: SEQ ID NO:111:	
	8378	(VI) DESCRICE DESCRIPTION, DRS IN MO.III.	
	8379	CAGGAAACAG CTATGACCTC TTTGCTCATT GTGCAACA	38
	8380	Oliochiliono officialista and annous	

### SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/084,471

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6945 Unknown or Misplaced Identifier 6960 Unknown or Misplaced Identifier 6961 Unknown or Misplaced Identifier 6962 Unknown or Misplaced Identifier 6977 Unknown or Misplaced Identifier 6978 Unknown or Misplaced Identifier 6979 Unknown or Misplaced Identifier 6994 Unknown or Misplaced Identifier 6995 Unknown or Misplaced Identifier 6996 Unknown or Misplaced Identifier 6996 Unknown or Misplaced Identifier 6996 Unknown or Misplaced Identifier 6910 OTHER INFORMATION: 9R/M13R primer 6911 Unknown or Misplaced Identifier 692 Unknown or Misplaced Identifier 693 Unknown or Misplaced Identifier 694 Unknown or Misplaced Identifier 695 Unknown or Misplaced Identifier 696 Unknown or Misplaced Identifier 6970 Unknown or Misplaced Identifier 6980 Unknown or Misplaced Identifier 6990 Unknown or Misplaced Identifier 6900 OTHER INFORMATION: 10AR/M13R primer 6900 Unknown or Misplaced Identifier			
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6978 Unknown or Misplaced Identifier (B) LOCATION: 6979 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 9R/M13R primer 6994 Unknown or Misplaced Identifier (A) NAME/KEY: 6995 Unknown or Misplaced Identifier (B) LOCATION: 6996 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AF primer 7011 Unknown or Misplaced Identifier (A) NAME/KEY: 7012 Unknown or Misplaced Identifier (B) LOCATION: 7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			(D) OTHER INFORMATION: 9F/M13F primer
6979 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 9R/M13R primer 6994 Unknown or Misplaced Identifier (A) NAME/KEY: 6995 Unknown or Misplaced Identifier (B) LOCATION: 6996 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AF primer 7011 Unknown or Misplaced Identifier (A) NAME/KEY: 7012 Unknown or Misplaced Identifier (B) LOCATION: 7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			
6994 Unknown or Misplaced Identifier (A) NAME/KEY: 6995 Unknown or Misplaced Identifier (B) LOCATION: 6996 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AF primer 7011 Unknown or Misplaced Identifier (A) NAME/KEY: 7012 Unknown or Misplaced Identifier (B) LOCATION: 7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			(B) LOCATION:
6995 Unknown or Misplaced Identifier (B) LOCATION: 6996 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AF primer 7011 Unknown or Misplaced Identifier (A) NAME/KEY: 7012 Unknown or Misplaced Identifier (B) LOCATION: 7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			(D) OTHER INFORMATION: 9R/M13R primer
6996 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AF primer 7011 Unknown or Misplaced Identifier (A) NAME/KEY: 7012 Unknown or Misplaced Identifier (B) LOCATION: 7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			
7011 Unknown or Misplaced Identifier (A) NAME/KEY: 7012 Unknown or Misplaced Identifier (B) LOCATION: 7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			
7012 Unknown or Misplaced Identifier (B) LOCATION: 7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			
7013 Unknown or Misplaced Identifier (D) OTHER INFORMATION: 10AR/M13R primer			
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	1028	Unknown or Misplaced Identifier	(A) NAME/KEY:

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:53:17

Line	Error	Original Text
7029	Unknown or Misplaced Identifier	(B) LOCATION:
7030	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 10BF/M13F primer
7045	Unknown or Misplaced Identifier	(A) NAME/KEY:
7046	Unknown or Misplaced Identifier	(B) LOCATION:
7047	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 10BR/M13R primer
7080	Unknown or Misplaced Identifier	(A) NAME/KEY:
7081	Unknown or Misplaced Identifier	(B) LOCATION:
7082	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 10CRII primer
7097	Unknown or Misplaced Identifier	(A) NAME/KEY:
7098	Unknown or Misplaced Identifier	(B) LOCATION:
7099	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11AF-M13 primer
7114	Unknown or Misplaced Identifier	(A) NAME/KEY:
7115	Unknown or Misplaced Identifier	(B) LOCATION:
7116	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11AR-M13 primer
7131	Unknown or Misplaced Identifier	(A) NAME/KEY:
7132	Unknown or Misplaced Identifier	(B) LOCATION:
7133	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11BF primer
7148	Unknown or Misplaced Identifier	(A) NAME/KEY:
7149	Unknown or Misplaced Identifier	
7150	Unknown or Misplaced Identifier	(B) LOCATION: (D) OTHER INFORMATION: 11BR primer
7165	Unknown or Misplaced Identifier	
7166	Unknown or Misplaced Identifier	(A) NAME/KEY:
7167	Unknown or Misplaced Identifier	(B) LOCATION:
7182	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11CF primer
7183	Unknown or Misplaced Identifier	(A) NAME/KEY: (B) LOCATION:
7184	Unknown or Misplaced Identifier	
7199	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11CR primer
7200	Unknown or Misplaced Identifier	(A) NAME/KEY:
7201	Unknown or Misplaced Identifier	(B) LOCATION:
7216	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11DF primer
7217	Unknown or Misplaced Identifier	(A) NAME/KEY:
7218	Unknown or Misplaced Identifier	(B) LOCATION:
7233	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11DR primer
7234	Unknown or Misplaced Identifier	(A) NAME/KEY:
7235	Unknown or Misplaced Identifier	(B) LOCATION:
7250	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11EF primer
7251	Unknown or Misplaced Identifier	(A) NAME/KEY:
7252	Unknown or Misplaced Identifier	(B) LOCATION:
7267	Unknown of Misplaced Identifier	(D) OTHER INFORMATION: 11ER primer
7268	Unknown or Misplaced Identifier	(A) NAME/KEY:
7269	Unknown or Misplaced Identifier	(B) LOCATION:
7284	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11FF primer
7285		(A) NAME/KEY:
7286	Unknown or Misplaced Identifier Unknown or Misplaced Identifier	(B) LOCATION:
7301		(D) OTHER INFORMATION: 11FR primer
7302	Unknown or Misplaced Identifier	(A) NAME/KEY:
7303	Unknown or Misplaced Identifier	(B) LOCATION:
7318	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11GF primer
1210	Unknown or Misplaced Identifier	(A) NAME/KEY:

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:53:18

Line	Error	Original Text
7319	Unknown or Mignland Identifier	(P) LOCATION
7320	Unknown or Misplaced Identifier	(B) LOCATION:
7320 7335	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11GR primer
	Unknown or Misplaced Identifier	(A) NAME/KEY:
7336	Unknown or Misplaced Identifier	(B) LOCATION:
7337	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11HF primer
7370	Unknown or Misplaced Identifier	(A) NAME/KEY:
7371	Unknown or Misplaced Identifier	(B) LOCATION:
7372	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11IF primer
7387	Unknown or Misplaced Identifier	(A) NAME/KEY:
7388	Unknown or Misplaced Identifier	(B) LOCATION:
7389	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11IR primer
7404	Unknown or Misplaced Identifier	(A) NAME/KEY:
7405	Unknown or Misplaced Identifier	(B) LOCATION:
7406	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11JF primer
7421	Unknown or Misplaced Identifier	(A) NAME/KEY:
7422	Unknown or Misplaced Identifier	(B) LOCATION:
7423	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: !!JR primer
7438	Unknown or Misplaced Identifier	(A) NAME/KEY:
7439	Unknown or Misplaced Identifier	(B) LOCATION:
7440	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11KF-M13 primer
7455	Unknown or Misplaced Identifier	(A) NAME/KEY:
7456	Unknown or Misplaced Identifier	(B) LOCATION:
7457	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11KR-M13 primer
7472	Unknown or Misplaced Identifier	(A) NAME/KEY:
7473	Unknown or Misplaced Identifier	(B) LOCATION:
7474	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11LF primer
7489	Unknown or Misplaced Identifier	(A) NAME/KEY:
7490	Unknown or Misplaced Identifier	(B) LOCATION:
7491	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11LR primer
7506	Unknown or Misplaced Identifier	(A) NAME/KEY:
7507	Unknown or Misplaced Identifier	(B) LOCATION:
7508	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11MF primer
7523	Unknown or Misplaced Identifier	(A) NAME/KEY:
7524	Unknown or Misplaced Identifier	(B) LOCATION:
7525	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11MR primer
7540	Unknown or Misplaced Identifier	(A) NAME/KEY:
7541	Unknown or Misplaced Identifier	(B) LOCATION:
7542	Unknown or Misplaced Identifier	
7557	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11NF-M13 primer (A) NAME/KEY:
7558	Unknown or Misplaced Identifier	(B) LOCATION:
7559	Unknown or Misplaced Identifier	(D) OTHER INCORMATION, 11ND M12
7574	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11NR-M13 primer
7575	Unknown or Misplaced Identifier	(A) NAME/KEY:
7576	Unknown or Misplaced Identifier	(B) LOCATION:
7591	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 110F primer
7592		(A) NAME/KEY:
7593	Unknown or Misplaced Identifier Unknown or Misplaced Identifier	(B) LOCATION:
7608	Unknown or Mighlaged Identifier	(D) OTHER INFORMATION: 11OR primer
7000	Unknown or Misplaced Identifier	(A) NAME/KEY:

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:53:20

I	Line	Error	Original Text
7	609	Unknown or Misplaced Identifier	(B) LOCATION:
7	610	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11PF primer
7	625	Unknown or Misplaced Identifier	(A) NAME/KEY:
7	626	Unknown or Misplaced Identifier	(B) LOCATION:
	627	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11PR primer
	642	Unknown or Misplaced Identifier	(A) NAME/KEY:
	643	Unknown or Misplaced Identifier	(B) LOCATION:
	644	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11QF primer
	659	Unknown or Misplaced Identifier	(A) NAME/KEY:
	660	Unknown or Misplaced Identifier	(B) LOCATION:
	661	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11QR primer
	676	Unknown or Misplaced Identifier	(A) NAME/KEY:
	677	Unknown or Misplaced Identifier	(B) LOCATION:
	678	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11RF primer
	693	Unknown or Misplaced Identifier	(A) NAME/KEY:
	694	Unknown or Misplaced Identifier	(B) LOCATION:
	695	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11RR primer
	710	Unknown or Misplaced Identifier	(A) NAME/KEY:
	711	Unknown or Misplaced Identifier	(B) LOCATION:
	712	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11SF-M13 primer
	727	Unknown or Misplaced Identifier	(A) NAME/KEY:
	728	Unknown or Misplaced Identifier	(B) LOCATION:
	729	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11SR-M13 primer
	744	Unknown or Misplaced Identifier	(A) NAME/KEY:
	745	Unknown or Misplaced Identifier	(B) LOCATION:
	746	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11TF primer
	761	Unknown or Misplaced Identifier	(A) NAME/KEY:
	762	Unknown or Misplaced Identifier	(B) LOCATION:
		Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11TR primer
7	778	Unknown or Misplaced Identifier	(A) NAME/KEY:
7	779	Unknown or Misplaced Identifier	(B) LOCATION:
	780	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11UF-M13 primer
	795	Unknown or Misplaced Identifier	(A) NAME/KEY:
7	796	Unknown or Misplaced Identifier	(B) LOCATION:
7	797	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 11UR-M13 primer
7	812	Unknown or Misplaced Identifier	(A) NAME/KEY:
7	813	Unknown or Misplaced Identifier	(B) LOCATION:
7	814	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 12F/M13F primer
7	829	Unknown or Misplaced Identifier	(A) NAME/KEY:
7	830	Unknown or Misplaced Identifier	(B) LOCATION:
7	831	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 12R/M13R primer
7	846	Unknown or Misplaced Identifier	(A) NAME/KEY:
7	847	Unknown or Misplaced Identifier	(B) LOCATION:
	848	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 13-2F primer
	863	Unknown or Misplaced Identifier	(A) NAME/KEY:
	864	Unknown or Misplaced Identifier	(B) LOCATION:
7	865	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 13-2R primer
,	880	Unknown or Misplaced Identifier	(A) NAME/KEY:

# **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/09/084,471*

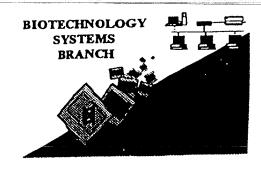
DATE: 06/04/98 TIME: 15:53:21

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7881	Unknown or Misplaced Identifier	(B) LOCATION:
7882	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 14F primer
7897	Unknown or Misplaced Identifier	(A) NAME/KEY:
7898	Unknown or Misplaced Identifier	(B) LOCATION:
7899	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 14AR primer
7914	Unknown or Misplaced Identifier	(A) NAME/KEY:
7915	Unknown or Misplaced Identifier	(B) LOCATION:
7916	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 15-2F primer
7931	Unknown or Misplaced Identifier	(A) NAME/KEY:
7932	Unknown or Misplaced Identifier	(B) LOCATION:
7933	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 15FUT/M13-R primer
7948	Unknown or Misplaced Identifier	(A) NAME/KEY:
7949	Unknown or Misplaced Identifier	(B) LOCATION:
7950	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 16AF primer
7965	Unknown or Misplaced Identifier	(A) NAME/KEY:
7966	Unknown or Misplaced Identifier	(B) LOCATION:
7967	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 16AR primer
7982	Unknown or Misplaced Identifier	(A) NAME/KEY:
7983	Unknown or Misplaced Identifier	(B) LOCATION:
7984	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 17F primer
7999	Unknown or Misplaced Identifier	(A) NAME/KEY:
8000	Unknown or Misplaced Identifier	(B) LOCATION:
8001	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 17AR primer
8016	Unknown or Misplaced Identifier	(A) NAME/KEY:
8017	Unknown or Misplaced Identifier	(B) LOCATION:
8018	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 18FUT/M13-AF primer
8033	Unknown or Misplaced Identifier	(A) NAME/KEY:
8034	Unknown or Misplaced Identifier	(B) LOCATION:
8035	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 18R/M13R primer
8050	Unknown or Misplaced Identifier	(A) NAME/KEY:
8051	Unknown or Misplaced Identifier	(B) LOCATION:
8052	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 19F/M13F primer
8067	Unknown or Misplaced Identifier	(A) NAME/KEY:
8068	Unknown or Misplaced Identifier	(B) LOCATION:
8069	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 19FUT/M13-R primer
8084	Unknown or Misplaced Identifier	(A) NAME/KEY:
8085	Unknown or Misplaced Identifier	(B) LOCATION:
8086	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 20F/M13F primer
8101	Unknown or Misplaced Identifier	(A) NAME/KEY:
8102	Unknown or Misplaced Identifier	(B) LOCATION:
8103	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 20R/M13R primer
8118	Unknown or Misplaced Identifier	(A) NAME/KEY:
8119	Unknown or Misplaced Identifier	(B) LOCATION:
8120	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 21F/M13F primer
8135	Unknown or Misplaced Identifier	(A) NAME/KEY:
8136	Unknown or Misplaced Identifier	(B) LOCATION:
8137	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 21R/M13R primer
8152	Unknown or Misplaced Identifier	(A) NAME/KEY:
	T. T. S.	(A) NAMERICA.

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/084,471

DATE: 06/04/98 TIME: 15:53:23

Line	Error	Original Text
0150	Halmann M. L. L. L. 100	
8153 8154	Unknown or Misplaced Identifier	(B) LOCATION:
	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 22F-1A primer
8169	Unknown or Misplaced Identifier	(A) NAME/KEY:
8170	Unknown or Misplaced Identifier	(B) LOCATION:
8171	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 22R-1A primer
8186	Unknown or Misplaced Identifier	(A) NAME/KEY:
8187	Unknown or Misplaced Identifier	(B) LOCATION:
8188	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 23FII primer
8203	Unknown or Misplaced Identifier	(A) NAME/KEY:
8204	Unknown or Misplaced Identifier	(B) LOCATION:
8205	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 23RII primer
8220	Unknown or Misplaced Identifier	(A) NAME/KEY:
8221	Unknown or Misplaced Identifier	(B) LOCATION:
8222	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 24 2F primer
8237	Unknown or Misplaced Identifier	(A) NAME/KEY:
8238	Unknown or Misplaced Identifier	(B) LOCATION:
8239	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 24R/M13R primer
8254	Unknown or Misplaced Identifier	(A) NAME/KEY:
8255	Unknown or Misplaced Identifier	(B) LOCATION:
8256	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 25F-7/23 primer
8271	Unknown or Misplaced Identifier	(A) NAME/KEY:
8272	Unknown or Misplaced Identifier	(B) LOCATION:
8273	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 25R-7/23 primer
8288	Unknown or Misplaced Identifier	(A) NAME/KEY:
8289	Unknown or Misplaced Identifier	(B) LOCATION:
8290	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 26-2F primer
8305	Unknown or Misplaced Identifier	(A) NAME/KEY:
8306	Unknown or Misplaced Identifier	(B) LOCATION:
8307	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 26-2R primer
8322	Unknown or Misplaced Identifier	(A) NAME/KEY:
8323	Unknown or Misplaced Identifier	(B) LOCATION:
8324	Unknown or Misplaced Identifier	
8339	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 27AF-1A primer (A) NAME/KEY:
8340	Unknown or Misplaced Identifier	(B) LOCATION:
8341	Unknown or Misplaced Identifier	
8356	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 27AR/M13R primer
8357	Unknown or Misplaced Identifier	(A) NAME/KEY: (B) LOCATION:
8358	Unknown or Misplaced Identifier	
8373	Unknown or Misplaced Identifier	(D) OTHER INFORMATION: 27BF/M13F primer
8374	Unknown or Misplaced Identifier	(A) NAME/KEY:
8375	Unknown or Misplaced Identifier	(B) LOCATION:
	ormio an or trimpiacou tuentino	(D) OTHER INFORMATION: 27BR/M13R primer



# Notice of Availability of Checker Program

Applicant Aid for Biotechnology Computer Readable Form (CRF)
Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CRF 1.821 through 1.825).

Final rules were published in the Federal Register (55 FR18230) on May 1, 1990, and in the PTO Official Gazette (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software is available via computer downloading, details are below. Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO Official Gazette.

The software can be accessed/requested from the following locations:

- Dial-up access through the Internet. Location is ftp://ftp.uspto.gov The software is in current directory: pub/checker/ Download all the files. Cost: Free-of-charge
- 3) For diskette copies, mail to: U.S.P.T.O., OEIP, CRYSTAL PARK 3, SUITE 441 WASHINGTON DC 20231

COST FOR DISKETTE IS \$ 25.00 METHOD OF PAYMENT:

Check payable to Commissioner of Patents and Trademarks VISA/ Mastercard/ Charge- Charges can be faxed to 703-306-2737 PTO Deposit Account

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